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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/498,801	01/31/2000	Gary T. Boyd	55241USA9A	9317	
7.	590 09/12/2002				
Attention Wil	liam D Miller		EXAM	EXAMINER	
Office Of Intellectual Property Counsel 3M Innovative Properties Company PO BOX 33427 St.Paul, MN 55133-3427		SHAFER, RICKY D			
			ART UNIT	PAPER NUMBER	
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(
Office Action Summary	091498,80	11 30	YD ET AL
g the state of the	Examiner R.D. SHAT		Crous And Haid
-The MAILING DATE of this communication appeal	rs on the cover sheet l	eneath the	correspondence address –
Period for Reply			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET OF THIS COMMUNICATION.	TO EXPIRE 3 MONTH	U_MONTH	(S) FROM THE MAILING DATE
 Extensions of time may be available under the provisions of 37 CFF from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a If NO period for reply is specified above, such period shall, by defair Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the m term adjustment. See 37 CFR 1.704(b). 	reply within the statutory mult, expire SIX (6) MONTHS fatute, cause the application	nimum of thirty rom the mailing to become AB	(30) days will be considered timely. I date of this communication.
Startus X Responsive to communication(s) filed on 6 1.3	107		
A This action is FINAL.		-	·
☐ Since this application is in condition for allowance excep accordance with the practice under Ex parte Quayle, 193	ot for formal matters, pro	secution as	s to the merits is closed in
Disposition of Claims			
F Claim(s) 1-9, 12-16 AND 3	6-38		manadian to the state of the st
Of the above claim(s) 36 - 38		is/are	pending in the application.
☐ Claim(s) 1-9, 12-16 AVD 3 Of the above claim(s) 36-38		is/are	withdrawn from consideration.
□ Claim(s)		is/are	allowed.
□ Claim(s) 1-9 AND 12-16		is/are is/are	allowed. rejected.
□ Claim(s) 1-9 AND 12-16 □ Claim(s)		is/are is/are is/are	allowed. rejected. objected to.
□ Claim(s)		is/are is/are is/are are su	allowed. rejected.
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U.S. Patent and Trademark Office PTO-326 (Rev. 11/00)

Part of Paper No.

Serial Number: 09/498,801 Page 2

Art Unit: 2872

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Newly submitted claims 36-38 are directed to an invention that is independent or distinct 1. from the elected invention for the following reasons. Newly submitted claims 36-38 are not drawn to the elected invention because the newly submitted claims fail to include the particular and/or specific details of the reflective polarizing film and adds separate details of the mounting arrangement of the first light source and the reflective image being coplanar or side by side. The newly submitted and elected inventions are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because of the omission of the particular and/or specific details of the reflective polarizing film, as evidenced by original and/or amended claim 1. The subcombination has separate utility such as an illuminated display device without the particular mounting arrangement of the first light source and the reflective image being coplanar or side by side which would required a search in class 345 subclass 8 which would not be required for the elected invention. Since applicant has received an action on the merits for the originally presented invention, this invention has been constructively elected by original presentation for prosecution on the merits. Accordingly, claims 36-38 are withdrawn from consideration as being directed to a non-elected invention. See 37 CFR 1.142(b) and MPEP § 821.03.

Serial Number: 09/498,801

Art Unit: 2872

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371© of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

3. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Uchiyama et al ('032).

Uchiyama et al discloses an illuminated display device comprising a first light source (2) disposed on a mount (10) having a mounting surface and directing light along a first axis, a reflective image display unit [(6B) or (6R)] disposed on the mount surface with an optical axis substantially parallel to the first axis and a reflective polarizing film (4) disposed to direct light from the first light source to the reflective image display unit. Note Figures 2 and 16.

4. Claims 1 and 12 are rejected under 35 U.S.C. 102(e) as being anticipated by Schehrer et al ('508).

Serial Number: 09/498,801

Art Unit: 2872

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Schehrer et al discloses an illuminated display device comprising a first light source [(501), (510) or (533)] disposed on a mount (534) having a mounting surface and directing light along a first axis, a reflective image display (504) disposed on the mount surface with an optical axis substantially parallel to the first axis, a reflective polarizing film (505) and a reflector [(502), (512) (532)]. Note figures 1A, 7, 8 and 10a to 10d.

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness 5. rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 1, 12 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Handschy et al ('451).

Handschy et al discloses an illuminated display device comprising a first light source (34). a reflective image display (36), a reflective polarizing film (64) and a reflector (42), note Figure 2B, except for explicitly illustrating that the illuminated display device includes a mount having a mounting surface.

However, it would have been obvious and/or within the level of one of ordinary skill in the art at the time the invention was made that each of the elements of the illuminated display device of Handschy et al would include a supporting substrate and it would have been obvious to mount the elements on the same supporting substrate in order to maintain better optical alignment when said display device is mounted onto a helmet or a pair of glasses.

Serial Number: 09/498,801 Page 5

Art Unit: 2872

7. Claims 2-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Uchiyama et al ('032).

Uchiyama et al discloses all of the subject matter claimed, note the above explanation, except for the reflective polarizing film being curved.

It is well known to provide a curved reflective polarizer in the same field of endeavor or analogous art for the purpose of reducing the bulk and weight of a display system or alternating provide for light concentration, uniform light transmission and/or aberration corrections.

Therefore, it would have been obvious and/or within the level of one of ordinary skilled in the art at the time the invention was made to modify the polarizing beam splitter of Uchiyama et al to include a curved reflective polarizer as is common used and employed in the optical art in order to increase light concentration, provide uniform light transmission or alternatively reduce optical aberrations, bulk and weight of the display system.

8. Claims 2-9 and 14-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Handschy et al ('451) in view of Handschy et al ('800).

Handschy et al ('451) discloses all of the subject matter claimed, note the above explanation, except for the reflective polarizer being curved.

Handschy et al ('800) teaches it is known to provide a curved reflective polarizer in the same field or endeavor for the purpose of reducing the bulk and weight of a display system.

Therefore, it would have been obvious and/or within the level of one of ordinary skill in the art at the time the invention was made to modify the reflective polarizer (polarizing beam

Serial Number: 09/498,801

Art Unit: 2872

splitting cube) of Handschy et al ('451) to include a curved reflective polarizer as taught by Handschy et al ('800) in order to reduce the bulk and weight of the display system.

9. Claims 2-9 and 13-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schehrer et al ('508).

Schehrer et al discloses all of the subject matter claimed, note the above explanation, except for the reflective polarizing film being curved.

It is well known to provide a curved reflective polarizer in the same field of endeavor or analogous art for the purpose of reducing the bulk and weight of a display system or alternating provide for light concentration, uniform light transmission and/or aberration corrections.

Therefore, it would have been obvious and/or within the level of one of ordinary skilled in the art at the time the invention was made to modify the polarizing beam splitter of Schehrer et al to include a curved reflective polarizer as is common used and employed in the optical art in order to increase light concentration, provide uniform light transmission or alternatively reduce optical aberrations, bulk and weight of the display system.

10. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL.** See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after

Page 7

Serial Number: 09/498,801

Art Unit: 2872

the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication should be directed to R. D. Shafer at 11. telephone number (703) 308-4813.

RDS

September 7, 2002